Prior to the installation, connection and using this device, please read the user's manual thoroughly and store the user's manual in a safe place for future reference.
Further, it is strictly recommended to have the parking sensors installed by a qualified service centre. You can damage your car and cause irreversible damages on car wiring system or car body.

This parking sensor notifies the driver of the distance from the obstacle and its location of obstacle by means of acoustic beep (SCA PARK100) or even a combination of acoustic beep and visual display (SCA PARK200), to ensure the safety of persons and things when reversing, eventually parking. The system switches on automatically when the reverse gear is selected. The sensors work on cutting-edge ultrasonic detection technology and they have been specially designed to blend in perfectly with your car bumper.

Important instructions

- This device has been designed as a driver aid and must not be considered infallible.
- Always manoeuvre your car with caution and using common sense and your driving skills.
- Manoeuvre your car slowly in the interest of your own safety and that of others.
- Always stop the car when the hazard warning is activated, in order to take in account movement inertia.
- Regularly check the sensor function and always make sure they are clean at all times.
- In the event of rain, snow or ice, the sensors may be subject to a temporary drop in sensitivity of approximately 20 %. Drive with even greater caution until evaporation is over.

Packaging content

After unpacking the device, please make sure the packaging contains the following:

1 command module
4 ultrasonic sensors
1 acoustic indicator (SCA PARK100) / 1 wireless LCD display (SCA PARK200)
1 power supply cable
1 hole borer
1 accessory kit
1 instruction manual

Features:

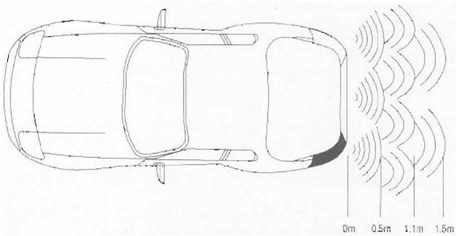
- Automatic activation when the reverse gear is chosen.
- Clearly visible display indicating distance of the obstacle (only for SCA PARK200).
- Integrated beeper for immediate alert.
- Easy installation, without maintenance.
- Wireless FM transmitting from the control box to the display (only for SCA PARK200).
- Optional voice alert (only for SCA PARK200).
- Does not run on battery power when the car is parked and the engine is switched off.
- The type approved in conformity with European regulations on electromagnetic compatibility.
- Using at all weather conditions (from -40 °C to +80 °C).

Note: The model without the display is equipped with external beeper with a possibility to set the volume level: off – mild – loud.

Operating

The parking sensors emit ultrasonic waves that are reflected by the obstacle, to cause a visual-acoustic signal. The precise distance of the obstacle is detected to facilitate parking manoeuvres even in the most restricted spaces. The frequency of ultrasonic waves has been chosen in order to minimise the disturbance or damage to people or animals.

Signal



SCA PARK100

Obstacle distance	Distance category	Acoustic signal	Display
150 – 110 cm	Safety distance	Bi ...... Bi ...... Bi	1,5 m – 1,1 m
100 – 50 cm	Caution distance	Bi ... Bi ... Bi ... Bi ...	1,0 m – 0,5 m
40 – 10 cm	Hazard distance	Biiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	0,4 m or P-

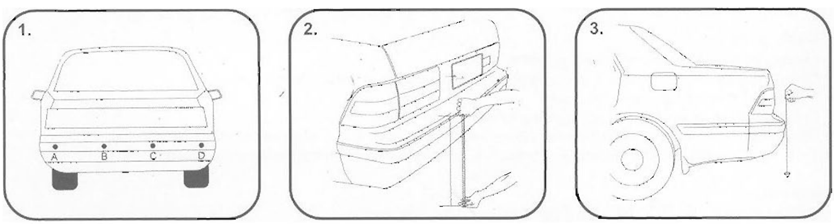
SCA PARK200

Note: Model SCA PARK200 is provided with an acoustic signal „Attention / Warning / Stop" and the distance from the bumper is detected from 30 mm up to 200 cm.

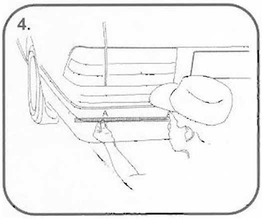
Installation

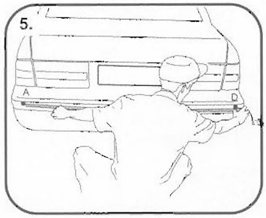
Before connection, please check the installation area on the read bumper that there are no obstructions to install (make the hole) the sensors.
For optimal sensors installation, a free space depth of 25 mm of the bumper is required. Some bumpers have an external casing or band or a rear metal part and it might be necessary to bore a hole in hole in order to mount the sensors.

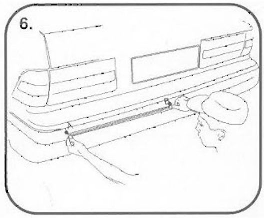
Correct installation depends on two factors:
- position: height from the ground and distance from the middle of the bumper (do not install immediately above the exhaust pipe).
- angle: accurate signals depend on the sensors mounted at the correct angle.



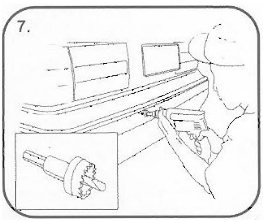
1. The installation area must be as far back as possible and must be obstacle – free.
2. The sensors should be installed at a height of between 45 and 65 cm from the ground, the optimal height is 50 cm.
3. Choose vertical and flat surface for installation (do not install on uneven surfaces).

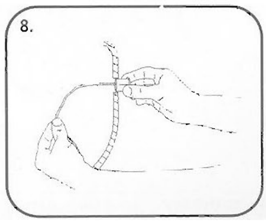


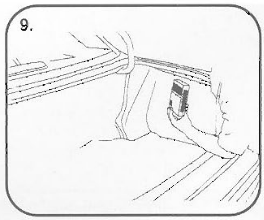




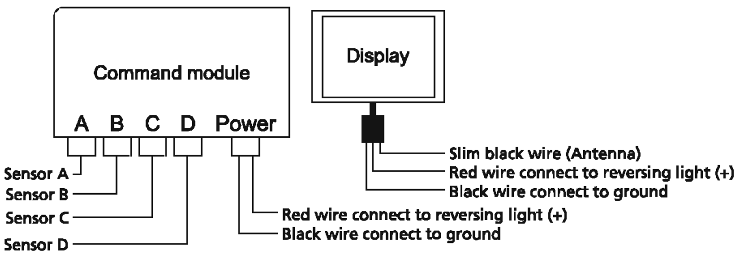
4. Using a marker or a pen mark a point 10 – 15 cm in from the outmost point of your car. The optimal distance is 12 cm for both sides. You can mark these points as point A and point D.
5. Measure the distance between the two marked points and divide that value by 3 to get „I".
6. Starting from the point „A", mark two more points at „A + I = B" and „A + 2I = C" respectively.







7. Mark a small indent by hand and then use the hole borer supplied to make holes.
8. Insert the sensors to the holes. When inserting, make sure the correct location.
9. Place the command module inside the boot. The location should remain dry. Do not expose the command module to water or other liquid.
10. Placing the beeper – display unit as desired (models without display, place the external beeper where desired).
11. a) SCA PARK100 – Connect red cable to power supply of reverse light and black cable to the car ground.
    b) SCA PARK200 – For the wire connection, see the instruction diagram below.



Installation check

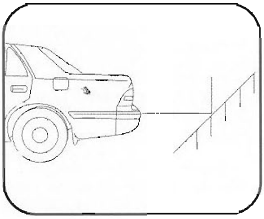
To check the correct installation, the car should be placed on flat, obstacle – free place within a free radius of 3 meters from the rear and sides of the car. With a hand break on and the engine switched off, put the car into the reverse gear and turn the ignition key to „ON" so that the reverse light switched on.

The system will notice your movement in front and behind the car at various distance and you would be able to check the distance from the sensors and your position (right, left).

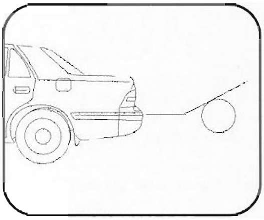
Note: For models without display, position (right, left) cannot be indicated.

If signals of caution or hazard distances persist, the sensors are mounted too low or at an incorrect angle. Connect one sensor at a time to find out the fault and then rotate the sensor through a maximum of 180° and repeat the check.
Once the check has been completed, the sensors can be fixed permanently and the cables can be fastened with the bands provided.
In the following situations malfunction may occur or obstacle may not be detected:

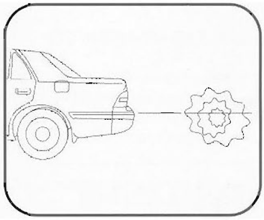
- The obstacle is a part of complex or has very irregular shape
- The obstacle is very smooth and it reflects the waves (glass or mirror), in particular if it is place almost parallel to the car body.



smooth and sloping obstacle



smooth and circular obstacle



or sound–absorbent obstacles

Technical specifications

Supply voltage:	10,5 V – 15 V (12 V nominal)
Current consumption:	200 mA max
Working temperature:	-20 °C – 65 °C
Storage temperature:	-35 °C – 85 °C
Obstacle detection (SCA PARK100):	from 150 cm from the bumper (up to 80 mm)
Obstacle detection (SCA PARK200):	from 200 cm from the bumper (up to 30 mm)
Reliability over time:	satisfies the strictest automotive standards
Frequence:	433,9 MHz

INSTRUCTIONS AND INFORMATION REGARDING THE DISPOSAL OF USED PACKAGING MATERIALS

Dispose of packaging material at a public waste disposal site.

DISPOSAL OF USED ELECTRICAL AND ELECTRONIC APPLIANCES

The meaning of the symbol on the product, its accessory or packaging indicates that this product shall not be treated as household waste. Please, dispose of this product at your applicable collection point for the recycling of electrical & electronic equipment waste. Alternatively in some states of the European Union or other European states you may return your products to your local retailer when buying an equivalent new product. The correct disposal of this product will help save valuable natural resources and help in preventing the potential negative impact on the environment and human health, which could be caused as a result of improper liquidation of waste. Please ask your local authorities or the nearest waste collection centre for further details. The improper disposal of this type of waste may fall subject to national regulations for fines.

For business entities in the European Union

If you wish to dispose of an electrical or electronic device, request the necessary information from your seller or supplier.

Disposal in other countries outside the European Union

If you wish to dispose of this product, request the necessary information about the correct disposal method from local government departments or from your seller.

This product meets all the basic EU regulation requirements that relate to it.

Changes to the text, design and technical specifications may occur without prior notice and we reserve the right to make these changes.

Declaration of Conformity

This product meets the basic requirements for final radio and telecommunication equipment and it is labelled with CE logo. It mainly complies with the following regulations:

CE	89/336 EEC – Electromagnetic Compatibility 73/23 EEC – Low Voltage 93/68 EEC – EC Declaration of Conformity 1995/5 EC – R &TTE

Prohlášení o shodě

Tento výrobek vyhovuje základním požadavkům na koncová rozhlasová a telekomunikační zařízení, a jako takový je označen logem CE. Jedná se především o vyhovění následujícím směrnicím:

CE	89/336 EEC – elektromagnetická slučitelnost 73/23 EEC – nízkonapěťová zařízení 93/68 EEC – směrnice pro komunikační zařízení 1995/5 EC – R &TTE

Vyhlásenie o zhode

Tento výrobok vyhovuje základným požiadavkám pre koncové rozhlasové a telekomunikačné zariadenia a ako taký je označený logom CE. Jedná sa predovšetkým o vyhovenie nasledujúcim smerniciam:

CE	89/336 EHS – smernica o elektromagnetickej kompatibilite 73/23 EHS – smernica o elektrických zariadeniach skonštruovaných na použitie v rámci určitého rozmedzia napätia 93/68 EHS – smernica pre komunikačné zariadenia 1995/5 ES – smernica o rádiových zariadeniach a koncových telekomunikačných zariadeniach (RTTE)

Megfelelőségi nyilatkozat

Ez a termék megfelel a felhasználói rádió- és telekommunikációs berendezések követelményeinek, és mint ilyen, a CE logóval van jelölve. Elsősorban a következő irányelveknek megfelelőségről van szó:

CE	89/336 EEC – elektromágneses összeférhetőség 73/23 EEC – kisfeszültségű berendezések 93/68 EEC – kommunikációs berendezések 1995/5 EC – R &TTE

Deklaracja zgodności

Niniejszy wyrób spełnia podstawowe wymagania dotyczące finalnych urządzeń radiowych i telekomunikacyjnych i jako taki jest oznaczony logo CE. Wyrób spełnia przede wszystkim wymagania następujących dyrektyw:

CE	89/336 EEC – kompatybilność elektromagnetyczna 73/23 EEC – niskonapięciowe wyroby elektryczne 93/68 EEC – dyrektywa dotycząca urządzeń komunikacyjnych 1995/5 EC – R &TTE

Декларация соответствия

Данное изделие соответствует основным требованиям к радио- и телекоммуникационному оборудованию и имеет маркировку CE. Главным образом оно соответствует следующим нормам:

CE	89 / 336 EEC – Директива по электромагнитной совместимости 73 / 23 EEC – Директива на низковольтное оборудование 93 / 68 EEC – Декларация соответствия EC 1995 / 5 EC – Директива по радио- и телекоммуникационному терминальному оборудованию

Atitikties deklaracija

Šis gaminys atitinka bazinius galutinės radijo ir telekomunikacijų įrangos reikalavimus ir yra pažymėtas CE logotipu. Minėti reikalavimai iš esmės susideda iš šių reglamentų:

CE	89/336 EEB – Elektromagnetinio suderinamumo direktyva 73/23 EEB – Žemos įtampos direktyva 93/68 EEB – EB atitikties deklaracijos direktyva 1995/5 EB – RTTE direktyva